

Safety Data Sheet

according to Regulation (EC) No. 453/2010 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 14/11/2014

Revision date:

Version: 1.0

ECN-5489-CS7

	ct identifier	ubstance/mixture and of the company/undertaking
Product form		: Mixtures
Product name.		: PCN CALIBRATION SOLUTION CS7 (UNLABELED/13C10, 99%) IN NONANE
Product code		: ECN-5489-CS7
I.2. Releva	ant identified uses of the su	ibstance or mixture and uses advised against
1.2.1. Releva	ant identified uses	
Industrial/Profess		: For professional use only.
1.2.2. Uses a	advised against	
	ormation available	
1.3. Details	s of the supplier of the safe	ty data sheet
Cambridge Isoto	pe Laboratories, Inc.	
50 Frontage Roa		
Andover, MA 01 USA	010	
	-1174 Int: 1-978-749-8000	
cilsales@isotope		
Emerg	ency telephone number	
Emergency num	bers:	
	0-424-9300 (24 hours) 202-483-7616 (24 hours)	
	Hazards identification	
	fication of the substance o	
Classification a	ccording to Regulation (EC) No. 1272/2008 [CLP]
Flam. Liq. 3	H226	
Acute Tox. 4 (Inh	nalation) H332	
Skin Irrit. 2	H315	
Eye Irrit. 2	H319	
STOT SE 3	H336	
Asp. Tox. 1	H304	
Aquatic Chronic	3 H412	
Full text of H-phr	ases: see section 16	
	ccording to Directive 67/54	8/EEC or 1999/45/EC
Classification a		
F; R11 Xn; R20		
F; R11 Xn; R20 Xn; R65		
F; R11 Xn; R20 Xn; R65 R52/53	ases: see section 16	
F; R11 Xn; R20 Xn; R65 R52/53	ases: see section 16	
F; R11 Xn; R20 Xn; R65 R52/53		
F; R11 Xn; R20 Xn; R65 R52/53 Full text of R-phr Classification (C Flam. Liq. 3	GHS-US) H226	
F; R11 Xn; R20 Xn; R65 R52/53 Full text of R-phr Classification (C	GHS-US)	

Adverse physicochemical, human health and environmental effects

Central Nervous System.

Aquatic Chronic 3 H412

H304

H402

Asp. Tox. 1 Aquatic Acute 3

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Labeling according to Regulation (EC) No	5. 1272/2008 [CLP]
Hazard pictograms (CLP)	
Signal word (CLP)	GHS02 GHS07 GHS08 : Danger
Hazardous ingredients	: N-NONANE UNLABELED
Hazard statements (CLP)	 H226 - Flammable liquid and vapor H304 - May be fatal if swallowed and enters airways H315 - Causes skin irritation H319 - Causes serious eye irritation H332 - Harmful if inhaled H336 - May cause drowsiness or dizziness H412 - Harmful to aquatic life with long lasting effects
Precautionary statements (CLP)	 P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking P233 - Keep container tightly closed P240 - Ground/bond container and receiving equipment P241 - Use explosion-proof electrical, lighting, ventilating equipment P261 - Avoid breathing fume, mist, spray, vapors P264 - Wash both hands thoroughly after handling P271 - Use only outdoors or in a well-ventilated area P273 - Avoid release to the environment
GHS-US labeling	
Hazard pictograms (GHS-US)	
	GHS02 GHS07 GHS08
Signal word (GHS-US) Hazard statements (GHS-US)	 Danger H226 - Flammable liquid and vapor H304 - May be fatal if swallowed and enters airways H315 - Causes skin irritation H319 - Causes serious eye irritation H336 - May cause drowsiness or dizziness H402 - Harmful to aquatic life H412 - Harmful to aquatic life with long lasting effects
Precautionary statements (GHS-US)	 P210 - Keep away from heat, hot surfaces, open flames, sparks No smoking P233 - Keep container tightly closed P240 - Ground/bond container and receiving equipment P241 - Use explosion-proof electrical, lighting, ventilating equipment P242 - Use only non-sparking tools P243 - Take precautionary measures against static discharge P261 - Avoid breathing fume, mist, spray, vapors P264 - Wash Both hands thoroughly after handling P271 - Use only outdoors or in a well-ventilated area P273 - Avoid release to the environment P280 - Wear eye protection, face protection, protective clothing, protective gloves P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician P302+P352 - IF ON SKIN: Wash with plenty of soap and water P303+P361+P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing, Rinse skin with water/shower P304+P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing P312 - Call a POISON CENTER/doctor/physician if you feel unwell P331 - If swallowed, do NOT induce vomiting P332+P313 - If skin irritation occurs: Get medical advice/attention P337+P313 - If eye irritation persists: Get medical advice/attention

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P370+P378 - In case of fire: Use Alcohol resistant foam., Carbon dioxide., Dry chemical., Water spray for extinction

P403+P233 - Store in a well-ventilated place. Keep container tightly closed

P403+P235 - Store in a well-ventilated place. Keep cool

P405 - Store locked up

P501 - Dispose of contents/container to Comply with applicable regulations.

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

- Not applicable
- 3.2. Mixtures

Name	Product identifier	%	Classification according to Directive 67/548/EEC
N-NONANE UNLABELED	(CAS No) 111-84-2 (EC no) 203-913-4	98.07137431	R10 Xn; R20 Xn; R65 R67
ISOOCTANE UNLABELED	(CAS No) 540-84-1 (EC no) 208-759-1 (EC index no) 601-009-00-8	1.92851627	F; R11 Xi; R38 N; R50/53 R67
1,2,3,4-TETRACHLORONAPHTHALENE UNLABELED	(CAS No) 20020-02-4 (Unlabeled)	0.00001393	Xn; R22
1,2,3,5,7-PENTACN UNLABELED	(CAS No) 53555-65-0 (Unlabeled) (EC no) 215-320-8 (EC index no) 602-041-00-5	0.00001393	Xn; R20/21 Xi; R36/37/38 N; R50/53
1,2,3,4,6,7-HEXACN UNLABELED	(CAS No) 103426-96-6 (Unlabeled) (EC no) 215-320-8 (EC index no) 602-041-00-5	0.00001393	Xn; R20/21 Xi; R36/37/38 N; R50/53
1,2,3,5,6,7-HEXACN UNLABELED	(CAS No) 103426-97-7 (Unlabeled) (EC no) 215-320-8 (EC index no) 602-041-00-5	0.00001393	Xn; R20/21 Xi; R36/37/38 N; R50/53
1,2,3,5,6,8-HEXACN UNLABELED	(CAS No) 103426-95-5 (Unlabeled) (EC no) 215-320-8 (EC index no) 602-041-00-5	0.00001393	Xn; R20/21 Xi; R36/37/38 N; R50/53
1,2,3,4,5,6,7-HEPTACN UNLABELED	(CAS No) 58863-14-2 (Unlabeled) (EC no) 215-320-8 (EC index no) 602-041-00-5	0.00001393	Xn; R20/21 Xi; R36/37/38 N; R50/53
OCTACHLORONAPHTHALENE UNLABELED	(CAS No) 2234-13-1 (Unlabeled) (EC no) 218-778-7	0.00001393	Xn; R22 R53
1,2,3,4-TCDD	(CAS No) 1746-01-6	0.00000348	Muta.Cat.3; R68 T+; R27 Xn; R65 R53
1,2,3,4,5,6,7-HEPTACN (13C10, 98%)	(CAS No) 58863-14-2 (Unlabeled) (EC no) 215-320-8 (EC index no) 602-041-00-5	0.00000139	Xn; R20/21 Xi; R36/37/38 N; R50/53
1,2,3,4,5,7-HEXACN (13C10, 99%)	(CAS No) 67922-27-4 (Unlabeled)	0.00000139	Xn; R22 Xi; R41 Xi; R38 N; R50/53 R48
1,2,3,4-TETRACN (13C10, 99%)	(CAS No) 20020-02-4 (Unlabeled)	0.00000139	Xn; R22
1,2,3,5,7-PENTACN (13C10, 99%)	(CAS No) 53555-65-0 (Unlabeled) (EC no) 215-320-8 (EC index no) 602-041-00-5	0.00000139	Xn; R20/21 Xi; R36/37/38 N; R50/53

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Name	Product identifier	%	Classification according to Directive 67/548/EEC
1,2,3,5,6,7-HEXACN (13C10, 98%)	(CAS No) 103426-97-7 (Unlabeled) (EC no) 215-320-8 (EC index no) 602-041-00-5	0.00000139	Xn; R20/21 Xi; R36/37/38 N; R50/53
OCTACN (13C10, 99%)	(CAS No) 2234-13-1 (Unlabeled) (EC no) 218-778-7	0.00000139	Xn; R22 R53
Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
N-NONANE UNLABELED	(CAS No) 111-84-2 (EC no) 203-913-4	98.07137431	Flam. Liq. 3, H226 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H336 Asp. Tox. 1, H304
ISOOCTANE UNLABELED	(CAS No) 540-84-1 (EC no) 208-759-1 (EC index no) 601-009-00-8	1.92851627	Flam. Liq. 2, H225 Skin Irrit. 2, H315 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
1,2,3,4-TETRACHLORONAPHTHALENE UNLABELED	(CAS No) 20020-02-4 (Unlabeled)	0.00001393	Acute Tox. 4 (Oral), H302 Eye Irrit. 2, H319 Aquatic Chronic 4, H413
1,2,3,5,7-PENTACN UNLABELED	(CAS No) 53555-65-0 (Unlabeled) (EC no) 215-320-8 (EC index no) 602-041-00-5	0.00001393	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT RE 1, H372 STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
1,2,3,4,6,7-HEXACN UNLABELED	(CAS No) 103426-96-6 (Unlabeled) (EC no) 215-320-8 (EC index no) 602-041-00-5	0.00001393	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT RE 1, H372 STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
1,2,3,5,6,7-HEXACN UNLABELED	(CAS No) 103426-97-7 (Unlabeled) (EC no) 215-320-8 (EC index no) 602-041-00-5	0.00001393	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 1, H370 STOT SE 2, H371 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
1,2,3,5,6,8-HEXACN UNLABELED	(CAS No) 103426-95-5 (Unlabeled) (EC no) 215-320-8 (EC index no) 602-041-00-5	0.00001393	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT RE 1, H372 STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
1,2,3,4,5,6,7-HEPTACN UNLABELED	(CAS No) 58863-14-2 (Unlabeled) (EC no) 215-320-8 (EC index no) 602-041-00-5	0.00001393	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT RE 1, H372 STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
OCTACHLORONAPHTHALENE UNLABELED	(CAS No) 2234-13-1 (Unlabeled) (EC no) 218-778-7	0.00001393	Acute Tox. 4 (Oral), H302 Aquatic Chronic 4, H413
1,2,3,4-TCDD	(CAS No) 1746-01-6	0.00000348	Acute Tox. 1 (Dermal), H310 Muta. 2, H341 STOT SE 2, H371 Asp. Tox. 1, H304 Aquatic Chronic 4, H413
1,2,3,4,5,6,7-HEPTACN (13C10, 98%)	(CAS No) 58863-14-2 (Unlabeled) (EC no) 215-320-8 (EC index no) 602-041-00-5	0.00000139	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT RE 1, H372 STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
1,2,3,4,5,7-HEXACN (13C10, 99%)	(CAS No) 67922-27-4 (Unlabeled)	0.00000139	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
1,2,3,4-TETRACN (13C10, 99%)	(CAS No) 20020-02-4 (Unlabeled)	0.00000139	Acute Tox. 4 (Oral), H302 Eye Irrit. 2, H319 Aquatic Chronic 4, H413
1,2,3,5,7-PENTACN (13C10, 99%)	(CAS No) 53555-65-0 (Unlabeled) (EC no) 215-320-8 (EC index no) 602-041-00-5	0.00000139	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT RE 1, H372 STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
1,2,3,5,6,7-HEXACN (13C10, 98%)	(CAS No) 103426-97-7 (Unlabeled) (EC no) 215-320-8 (EC index no) 602-041-00-5	0.00000139	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT RE 1, H372 STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
OCTACN (13C10, 99%)	(CAS No) 2234-13-1 (Unlabeled) (EC no) 218-778-7	0.00000139	Acute Tox. 4 (Oral), H302 Aquatic Chronic 4, H413
Name	Product identifier	%	Classification (GHS-US)
N-NONANE UNLABELED	(CAS No) 111-84-2	98.07137431	Flam. Liq. 3, H226 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H336 Asp. Tox. 1, H304
ISOOCTANE UNLABELED	(CAS No) 540-84-1	1.92851627	Flam. Liq. 1, H224 Skin Irrit. 2, H315 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
1,2,3,4-TCDD	(CAS No) 1746-01-6	0.00000348	Acute Tox. 1 (Dermal), H310 STOT SE 2, H371 Asp. Tox. 1, H304

Full text of R-, H- and EUH-phrases: see section 16

4.1. Description of first aid measures	
First-aid measures general	: Move out of dangerous area. Consult a physician and show this safety data sheet.
First-aid measures after inhalation	: Remove to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER/doctor/physician if you feel unwell.
First-aid measures after skin contact	: Remove/Take off immediately all contaminated clothing. Wash with plenty of soap and water Wash contaminated clothing before reuse.
First-aid measures after eye contact	: Immediately flush eyes with plenty of water for at least 15 minutes. Get immediate medical attention.
First-aid measures after ingestion	: Immediately call a POISON CENTER or doctor/physician.
4.2. Most important symptoms and e	fects, both acute and delayed
Symptoms/injuries after inhalation	: May cause drowsiness or dizziness.
Symptoms/injuries after skin contact	: Causes skin irritation.
Symptoms/injuries after eye contact	: Causes eye irritation.
Symptoms/injuries after ingestion	: May be fatal if swallowed and enters airways.

4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

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SECTION 5: Firefighting measures		
5.1. Extinguishing media		
suitable extinguishing media	fires, apply water from as far as po	"alcohol" foam, dry chemical, or carbon dioxide. For large issible. Use very large quantities (flooding) of water applied a ater may be ineffective. Cool all affected containers with
5.2. Special hazards arising from the	substance or mixture	
Fire hazard	: Highly flammable liquid and vapor.	
Explosion hazard	: May form flammable/explosive vap	
Reactivity	: Vapors may form explosive mixture	e with air.
5.3. Advice for firefighters		
Firefighting instructions	: Use water spray to cool unopened	containers.
Protection during firefighting	: Do not enter fire area without prope	er protective equipment, including respiratory protection.
SECTION 6: Accidental release me	easures	
6.1. Personal precautions, protective	equipment and emergency procedures	3
General measures	: Remove ignition sources. Use spect smoking.	cial care to avoid static electric charges. No naked lights. No
6.1.1. For non-emergency personnel		
Emergency procedures	ventilation. Remove all sources of i	t. Avoid breathing vapors, mist or gas. Ensure adequate ignition. Evacuate personnel to safe areas. Beware of vapou ncentrations. Vapours can accumulate in low areas.
6.1.2. For emergency responders		
No additional information available		
6.2. Environmental precautions		
Avoid release to the environment.		
6.3. Methods and material for contain	ment and cleaning up	
For containment	: Contain spillage, then collect with r accordance with applicable Federa	non-combustible absorbent material. Disposal should be in Il, State and local regulations.
6.4. Reference to other sections		
No additional information available		
SECTION 7: Handling and storage		
7.1. Precautions for safe handling		
Additional hazards when processed	: Handle empty containers with care	because residual vapors are flammable.
Precautions for safe handling	: No naked lights. No smoking. Use ventilated area.	only non-sparking tools. Use only outdoors or in a well-
Hygiene measures	: Handle in accordance with good in breaks and at the end of workday.	dustrial hygiene and safety practice. Wash hands before
7.2. Conditions for safe storage, inclu	iding any incompatibilities	
Technical measures	: Proper grounding procedures to av container and receiving equipment	void static electricity should be followed. Ground/bond
Storage conditions	: Store at room temperature away fro	om light and moisture.
Incompatible materials	: Heat sources.	
7.3. Specific end use(s)		
No additional information available		
SECTION 8: Exposure controls/pe	rsonal protection	
8.1. Control parameters		
PCN CALIBRATION SOLUTION CS7 (UNL	ABELED/13C10, 99%) IN NONANE	
Italy - Portugal - USA ACGIH ACGIH TWA	· · · · · · · · · · · · · · · · · · ·	200.0000000000 ppm Central Nervous System impairment.
N-NONANE UNLABELED (111-84-2)		
Italy - Portugal - USA ACGIH ACGIH TW/	A (ppm)	200.0000000000 ppm Central Nervous System

impairment.

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1,2,3,5,7-PENTACN UNLABELED (53555-65-0 (Unlabeled))			
Italy - Portugal - USA ACGIH	ACGIH TWA (mg/m³)	0.500000000 mg/m³ Skin	
USA OSHA	OSHA PEL (TWA) (mg/m3)	0.500000000 mg/m³ Skin	
1,2,3,4,6,7-HEXACN UNLABELED (103426-96-6 (Unlabeled))			
USA OSHA	OSHA PEL (TWA) (mg/m3)	0.200000000 mg/m³ Skin	
1,2,3,5,7-PENTACN (13C10, 99%) (53555-65-0 (Unlabeled))			
Italy - Portugal - USA ACGIH	ACGIH TWA (mg/m³)	0.500000000 mg/m³ Skin	
USA OSHA	OSHA PEL (TWA) (mg/m3)	0.500000000 mg/m³ Skin	

8.2. Exposure controls

Personal protective equipment

SECTION OF Physic

: Protective clothing. Protective goggles. Self-contained breathing apparatus. Gloves.



Hand protection	: Wear suitable protective clothing and gloves.
Eye protection	: Wear safety glasses with side shields (or goggles) and a face shield.
Skin and body protection	: Wear suitable protective clothing.
Respiratory protection	: Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. Wear respiratory protection.

9.1. Information on basic physical and chemical properties Physical state : Liquid Appearance : Liquid. Molecular mass : 128.3 Color : No data available. Odor : No data available Odor hreshold : No data available Odor hreshold : No data available PH : No data available Relative evaporation rate (butyl acetate=1) : No data available Relative evaporation rate (butyl acetate=1) : No data available Beling point : -53 °C (-63 °F) - lit Freezing point : 151 °C (304 °F) - lit Flash point : 151 °C (304 °F) - lit Flash point : 31.0 °C (87.8 °F) - closed cup Self ignition temperature : 205 °C (401 °F) Pacomposition temperature : No data available Vapor pressure : 12.4 hPa (9.3 mmHg) at 37.7 °C (99.9 °F) Relative density : No data available	SECTION 9: Physical and chemical properties		
Appearance : Liquid. Molecular mass : 128.3 Color : No data available. Odor : No data available Odor threshold : No data available Odor threshold : No data available Relative evaporation rate (butyl acetate=1) : No data available Relative evaporation rate (butyl acetate=1) : No data available Relative evaporation rate (butyl acetate=1) : No data available Boiling point : No data available Self ignition temperature : No data available Planombility (solid, gas) : No data available Planombility (solid, gas) : Highly flammable liqui and vapor Vapor pressure : No data available Solubility : No data available Viscosity, kinematic : No data available Viscosity,	9.1. Information on basic physical and	chemical properties	
NoNo128.3Color:No data available.Odor:No data availableOdor threshold:No data availableOdor threshold:No data availableRelative evaporation rate (butyl acetate=1):No data availableMetting point:·So °C (- 63 °F) - litFreezing point:No data availableBoling point:15 °C (- 63 °F) - litFlash point:15 °C (- 63 °F) - litFlash point::So °C (- 67.8 °F) - litPecomposition temperature::No data availableSelf ignition temperature::No data availablePecomposition temperature::No data availableFlammability (solid, gas):::No data availableSolubility::No data availableSolubility:No data available:Solubility:No data availableSolubility:No data availableSolubility:No data availableSolubility:No data availableSolubility:No data availableViscosity, kinematic:No data available	Physical state	: Liquid	
Color: No data available.Odor: No data availableOdor threshold: No data availableOdor threshold: No data availablepH: No data availableRelative evaporation rate (butyl acetate=1): No data availableRelting point: So 'C (-G3 °F) - litFreezing point: No data availableBoiling point: 151 °C (304 °F) - litFlash point: 31.0 °C (87.8 °F) - closed cupSelf ignition temperature: No data availablePoemposition temperature: No data availableVapor pressure: No data availableRelative density at 20 °C: No data availableRelative density: No data availableSolubility: No data availableViscosity, kinematic: No data availableViscosity, kinematic: No data availableViscosity, kinematic: No data availableViscosity, dynamic: No data availableExplosive properties: No data availableOxidizing properties: No data ava	Appearance	: Liquid.	
Odor i No data available Odor threshold i No data available pH i No data available Relative evaporation rate (butyl acetate=1) i No data available Melting point i -53 °C (- 63 °F) - lit Freezing point i No data available Boiling point i 151 °C (304 °F) - lit Flash point i 51 °C (304 °F) - lots Self ignition temperature i No data available Pecomposition temperature i No data available Self ignition temperature i No data available Vapor pressure i No data available Relative evapor density at 20 °C i No data available Solubility i No data available Solubility i No data available Solubility i No data available Viscosity, kinematic i No data available Viscosity, kinematic i No data available Viscosity, dynamic i No data avai	Molecular mass	: 128.3	
Odor threshold: No data availablepH: No data availableRelative evaporation rate (butyl acetate=1): No data availableMelting point: -53 °C (-63 °F) - litFreezing point: No data availableBoling point: 151 °C (304 °F) - litFlash point: 31.0 °C (87.8 °F) - closed cupSelf ignition temperature: 205 °C (401 °F)Decomposition temperature: No data availableFlammability (solid, gas): Highly flammable liquid and vaporVapor pressure: 12.4 hPa (9.3 mmHg) at 37.7 °C (99.9 °F)Relative density at 20 °C: No data availableSolubility: Water: 0 %Log Pow: SofeLog Yow: No data availableViscosity, kinematic: No data availableViscosity, kinematic: No data availableViscosity, dynamic: No data availableExplosive properties: No data availableOxidizing properties: No data availableCiscosity, dynamic: No data availableExplosive imits: No data availableCiscosity, dynamic: No data availableCiscosity, dynamic: No data availableCiscosity, dynamic: No data availableExplosive properties: No data availableCiscosity, dynamic: No data availableExplosive properties: No data availableCiscosity, dynamic: No data availableExplosive properties: No data availableCiscosity, dynamic: No data available <tr <td="">Ciscosi</tr>	Color	: No data available.	
PH: No data availableRelative evaporation rate (butyl acetate=1): No data availableMelting point: -53 °C (- 63 °F) - litFreezing point: No data availableBoiling point: 151 °C (304 °F) - litFlash point: 31.0 °C (87.8 °F) - closed cupSelf ignition temperature: 205 °C (401 °F)Decomposition temperature: No data availableFlammability (solid, gas): Highly flammable liquid and vaporVapor pressure: 124 hPa (9.3 mmHg) at 37.7 °C (99.9 °F)Relative vapor density at 20 °C: No data availableSolubility: No data availableSolubility: No data availableLog Pow: No data availableViscosity, kinematic: No data availableViscosity, kinematic: No data availableViscosity, dynamic: No data availableExplosive properties: No data availableOxidizing properties: No data availableCiscosity, dynamic: No data availableExplosive imits: No data availableOxidizing properties: No data availableOxidizing properties: No data availableOxidizing properties: No data availableOxidizing properties: No data availableExplosive limits: No data availableExplosive limits: No data availableOxidizing properties: No data availableExplosive limits: No data availableExplosive limits: No data availableOxidizing properties: No data available<	Odor	: No data available	
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Freezing point: No data availableBoiling point: 151 °C (304 °F) - litFlash point: 31.0 °C (87.8 °F) - closed cupSelf ignition temperature: 205 °C (401 °F)Decomposition temperature: No data availableFlammability (solid, gas): Highly flammable liquid and vaporVapor pressure: 12.4 hPa (9.3 mmHg) at 37.7 °C (99.9 °F)Relative vapor density at 20 °C: No data availableSolubility: No data availableSolubility: Vater: 0 %Log Pow: 5.65Log Kow: No data availableViscosity, kinematic: No data availableViscosity, dynamic: No data availableExplosive properties: No data availableOxidizing properties: No data available	Relative evaporation rate (butyl acetate=1)	: No data available	
Boiling point:151 °C (304 °F) - litFlash point:31.0 °C (87.8 °F) - closed cupSelf ignition temperature:205 °C (401 °F)Decomposition temperature:No data availableFlammability (solid, gas):Highly flammable liquid and vaporVapor pressure:12.4 hPa (9.3 mmHg) at 37.7 °C (99.9 °F)Relative vapor density at 20 °C:No data availableSolubility:Vater: 0 %Log Pow:5.65Log Kow:No data availableViscosity, kinematic:No data availableViscosity, dynamic:No data availableExplosive properties:No data availableOxidizing properties:No data availableCiscosity ilimits:No data availableStopsive Ilimits:No data availableCiscosity ilimits:No data availableC	Melting point	: -53 °C (- 63 °F) - lit	
Flash point:31.0 °C (87.8 °F) - closed cupSelf ignition temperature:205 °C (401 °F)Decomposition temperature:No data availableFlammability (solid, gas):Highly flammable liquid and vaporVapor pressure:12.4 hPa (9.3 mmHg) at 37.7 °C (99.9 °F)Relative vapor density at 20 °C:No data availableRelative density:No data availableSolubility:No data availableLog Pow:5.65Log Kow:No data availableViscosity, kinematic:No data availableViscosity, dynamic:No data availableExplosive properties:No data availableOxidizing properties:No data availableOxidizing properties:No data availableOxidizing properties:No data availableOxidizing limits:No data available <tr td=""><</tr>	Freezing point	: No data available	
Self ignition temperature: 205 °C (401 °F)Decomposition temperature: No data availableFlammability (solid, gas): Highly flammable liquid and vaporVapor pressure: 12.4 hPa (9.3 mmHg) at 37.7 °C (99.9 °F)Relative vapor density at 20 °C: No data availableRelative density: No data availableSolubility: Water: 0 %Log Pow: 5.65Log Kow: No data availableViscosity, kinematic: No data availableViscosity, dynamic: No data availableExplosive properties: No data availableOxidizing properties: No data availableSolubility: No data available	Boiling point	: 151 °C (304 °F) - lit	
Decomposition temperature: No data availableFlammability (solid, gas): Highly flammable liquid and vaporVapor pressure: 12.4 hPa (9.3 mmHg) at 37.7 °C (99.9 °F)Relative vapor density at 20 °C: No data availableRelative density: No data availableRelative density: No data availableSolubility: Water: 0 %Log Pow: 5.65Log Kow: No data availableViscosity, kinematic: No data availableViscosity, dynamic: No data availableExplosive properties: No data availableOxidizing properties: No data availableExplosive limits: No data available	Flash point	: 31.0 °C (87.8 °F) - closed cup	
Flammability (solid, gas): Highly flammable liquid and vaporVapor pressure: 12.4 hPa (9.3 mmHg) at 37.7 °C (99.9 °F)Relative vapor density at 20 °C: No data availableRelative density: No data availableSolubility: Water: 0 %Log Pow: 5.65Log Kow: No data availableViscosity, kinematic: No data availableViscosity, dynamic: No data availableExplosive properties: No data availableOxidizing properties: No data availableExplosive limits: 0.87 - 2.9 % (V)	Self ignition temperature	: 205 °C (401 °F)	
Vapor pressure:12.4 hPa (9.3 mmHg) at 37.7 °C (99.9 °F)Relative vapor density at 20 °C:No data availableRelative density:No data availableSolubility:Water: 0 %Log Pow:5.65Log Kow:No data availableViscosity, kinematic:No data availableViscosity, dynamic:No data availableExplosive properties:No data availableOxidizing properties:No data availableExplosive limits:0.87 - 2.9 % (V)	Decomposition temperature	: No data available	
Relative vapor density at 20 °C: No data availableRelative density: No data availableSolubility: Water: 0 %Log Pow: 5.65Log Kow: No data availableViscosity, kinematic: No data availableViscosity, dynamic: No data availableExplosive properties: No data availableOxidizing properties: No data availableExplosive limits: 0.87 - 2.9 % (V)	Flammability (solid, gas)	: Highly flammable liquid and vapor	
Relative density: No data availableSolubility: Water: 0 %Log Pow: 5.65Log Kow: No data availableViscosity, kinematic: No data availableViscosity, dynamic: No data availableExplosive properties: No data availableOxidizing properties: No data availableExplosive limits: No data available	Vapor pressure	: 12.4 hPa (9.3 mmHg) at 37.7 °C (99.9 °F)	
Solubility: Water: 0 %Log Pow: 5.65Log Kow: No data availableViscosity, kinematic: No data availableViscosity, dynamic: No data availableExplosive properties: No data availableOxidizing properties: No data availableExplosive limits: 0.87 - 2.9 % (V)	Relative vapor density at 20 °C	: No data available	
Log Pow: 5.65Log Kow: No data availableViscosity, kinematic: No data availableViscosity, dynamic: No data availableExplosive properties: No data availableOxidizing properties: No data availableExplosive limits: No data available	Relative density	: No data available	
Log Kow: No data availableViscosity, kinematic: No data availableViscosity, dynamic: No data availableExplosive properties: No data availableOxidizing properties: No data availableExplosive limits: 0.87 - 2.9 % (V)	Solubility	: Water: 0 %	
Viscosity, kinematic: No data availableViscosity, dynamic: No data availableExplosive properties: No data availableOxidizing properties: No data availableExplosive limits: 0.87 - 2.9 % (V)	Log Pow	: 5.65	
Viscosity, dynamic: No data availableExplosive properties: No data availableOxidizing properties: No data availableExplosive limits: 0.87 - 2.9 % (V)	Log Kow	: No data available	
Explosive properties: No data availableOxidizing properties: No data availableExplosive limits: 0.87 - 2.9 % (V)	Viscosity, kinematic	: No data available	
Oxidizing properties : No data available Explosive limits : 0.87 - 2.9 % (V)	Viscosity, dynamic	: No data available	
Explosive limits : 0.87 - 2.9 % (V)	Explosive properties	: No data available	
	Oxidizing properties	: No data available	
	Explosive limits	: 0.87 - 2.9 % (V)	
9.2. Other information	9.2. Other information		

No additional information available

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SECTION 10: Stability and reactivity		
10.1. Reactivity		
Vapors may form explosive mixture with air.		
10.2. Chemical stability		
See storage and expiration date on CoA.		
10.3. Possibility of hazardous reactions		
No additional information available		
10.4. Conditions to avoid		
Open flame. Direct sunlight.		
10.5. Incompatible materials		
Strong oxidizing agents.		
10.6. Hazardous decomposition products		
May release flammable gases.		
SECTION 11: Toxicological informatio	n	
11.1. Information on toxicological effects		
Acute toxicity	Harmful if inhaled.	
PCN CALIBRATION SOLUTION CS7 (UNLABE	LED/13C10, 99%) IN NONANE	
LC50 inhalation rat (ppm)	3200 ppm/4h	
ATE (gases)	3200.000 ppmV/4h	
ATE (vapors)	11.000 mg/l/4h 1.500 mg/l/4h	
ATE (dust, mist)	1.500 mg///4m	
N-NONANE UNLABELED (111-84-2)	2220	
LC50 inhalation rat (ppm) ATE (dust, mist)	3200 ppm/4h 1.500 mg/l/4h	
	-	
ATE (oral)	500.000 mg/kg body weight	
1,2,3,5,7-PENTACN UNLABELED (53555-65-0	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
ATE (oral)	500.000 mg/kg body weight	
1,2,3,4,6,7-HEXACN UNLABELED (103426-96-6		
ATE (oral)	500.000 mg/kg body weight	
1,2,3,5,6,7-HEXACN UNLABELED (103426-97-7		
ATE (oral)	500.000 mg/kg body weight	
1,2,3,5,6,8-HEXACN UNLABELED (103426-95-	5 (Unlabeled))	
ATE (oral)	500.000 mg/kg body weight	
1,2,3,4,5,6,7-HEPTACN (13C10, 98%) (58863-14	1-2 (Unlabeled))	
ATE (oral)	500.000 mg/kg body weight	
OCTACHLORONAPHTHALENE UNLABELED	2234-13-1 (Unlabeled))	
ATE (oral)	500.000 mg/kg body weight	
1,2,3,4,5,6,7-HEPTACN UNLABELED (58863-14	1-2 (Unlabeled))	
ATE (oral)	500.000 mg/kg body weight	
1,2,3,4-TETRACN (13C10, 99%) (20020-02-4 (U	nlabeled))	
ATE (oral)	500.000 mg/kg body weight	
1,2,3,5,7-PENTACN (13C10, 99%) (53555-65-0	(Unlabeled))	
ATE (oral)	500.000 mg/kg body weight	
1,2,3,5,6,7-HEXACN (13C10, 98%) (103426-97-7 (Unlabeled))		
ATE (oral)	500.000 mg/kg body weight	
1,2,3,4,5,7-HEXACN (13C10, 99%) (67922-27-4 (Unlabeled))		
ATE (oral)	500.000 mg/kg body weight	
- ()		

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according to Regulation (EC) No. 453/2010 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

OCTACN (13C10, 99%) (2234-13-1 (Unlabeled))		
ATE (oral)	500.000 mg/kg body weight	
1,2,3,4-TCDD (1746-01-6)		
LD50 oral	0.013 mg/kg	
LD50 dermal	0.275 mg/kg	
ATE (dermal)	5.000 mg/kg body weight	
Skin corrosion/irritation	: Causes skin irritation.	
	Skin - rat - Skin irritation - Draize test	
Serious eye damage/irritation	: Causes serious eye irritation.	
	No data available	
Respiratory or skin sensitization	: Not available	
	No data available	
Germ cell mutagenicity	: Not available	
Carcinogenicity	: Not classified	
Reproductive toxicity	: Not available	
Specific target organ toxicity (single exposure)	: May cause drowsiness or dizziness.	
	May cause drowsiness or dizziness.	
Specific target organ toxicity (repeated	: Not classified	
exposure)	No data available	
Aspiration hazard	: May be fatal if swallowed and enters airways.	
Potential Adverse human health effects and symptoms	: The chemical, physical, and toxicological properties have not been thoroughly investigated.	
Symptoms/injuries after inhalation	: May cause drowsiness or dizziness.	
Symptoms/injuries after skin contact	: Causes skin irritation.	
Symptoms/injuries after eye contact	: Causes eye irritation.	
Symptoms/injuries after ingestion	: May be fatal if swallowed and enters airways.	

SECT	ION 12: Ecolo	al information	
12.1.	Toxicity		
Ecology	/ - water	: Harmful to aquatic life with long lasting effects.	

OCTACHLORONAPHTHALENE UNLABELED (2234-13-1 (Unlabeled))		
LC50 fish 1	> 600 mg/l Lepomis macrochirus (Bluegill) - 96 h	
EC50 Daphnia 1	> 530 mg/l Daphnia magna (Water flea) - 48 h	
ErC50 (algae)	> 500 mg/l Pseudokirchneriella subcapitata (green algae) - 72 h	
NOEC (chronic)	560 mg/l Cyprinodon variegatus (sheepshead minnow) - 96 h	
OCTACN (13C10, 99%) (2234-13-1 (Unlabeled))		
LC50 fish 1	> 600 mg/l Lepomis macrochirus (Bluegill) - 96 h	
EC50 Daphnia 1	> 530 mg/l Daphnia magna (Water flea) - 48 h	
ErC50 (algae)	> 500 mg/l Pseudokirchneriella subcapitata (green algae) - 72 h	
NOEC (chronic)	560 mg/l Cyprinodon variegatus (sheepshead minnow) - 96 h	

12.2. Persistence and degradability

PCN CALIBRATION SOLUTION CS7 (UNLABELED/13C10, 99%) IN NONANE		
Persistence and degradability	May cause long-term adverse effects in the environment.	
N-NONANE UNLABELED (111-84-2)		
Persistence and degradability	Not available.	
1,2,3,4-TETRACHLORONAPHTHALENE UNLABELED (20020-02-4 (Unlabeled))		
Persistence and degradability	Not available.	
1,2,3,5,7-PENTACN UNLABELED (53555-65-0 (Unlabeled))		
Persistence and degradability	No data available.	
1,2,3,4,6,7-HEXACN UNLABELED (103426-96-6 (Unlabeled))		
Persistence and degradability	No data available.	

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1,2,3,5,6,7-HEXACN UNLABELED (103426-97-	7 (Unlabeled))
Persistence and degradability	No data available.
1,2,3,5,6,8-HEXACN UNLABELED (103426-95-	5 (Unisheled))
Persistence and degradability	No data available.
• •	
1,2,3,4,5,6,7-HEPTACN (13C10, 98%) (58863-1	4-2 (Unlabeled))
Persistence and degradability	No data available.
OCTACHLORONAPHTHALENE UNLABELED	(2234-13-1 (I Inisheled))
Persistence and degradability	Not available.
ISOOCTANE UNLABELED (540-84-1)	
Persistence and degradability	Not available.
1,2,3,4,5,6,7-HEPTACN UNLABELED (58863-1	4-2 (Injahaled))
Persistence and degradability	No data available.
• •	
1,2,3,4-TETRACN (13C10, 99%) (20020-02-4 (L	Inlabeled))
Persistence and degradability	Not available.
1,2,3,5,7-PENTACN (13C10, 99%) (53555-65-0	(Unlabeled))
Persistence and degradability	No data available.
• •	
1,2,3,5,6,7-HEXACN (13C10, 98%) (103426-97-	
Persistence and degradability	No data available.
1,2,3,4,5,7-HEXACN (13C10, 99%) (67922-27-4	(Unlabeled))
Persistence and degradability	Not available.
• •	
OCTACN (13C10, 99%) (2234-13-1 (Unlabeled)	
Persistence and degradability	Not available.
12.3. Bioaccumulative potential	
PCN CALIBRATION SOLUTION CS7 (UNLABE	ELED/13C10. 99%) IN NONANE
Log Pow	5.65
Bioaccumulative potential	Indication of bioaccumulation.
N-NONANE UNLABELED (111-84-2)	
Log Pow	5.65
Bioaccumulative potential	Indication of bioaccumulation.
1,2,3,4-TETRACHLORONAPHTHALENE UNLA	BELED (20020-02-4 (Unlabeled))
Log Pow	5.314
Bioaccumulative potential	Not available.
1,2,3,5,7-PENTACN UNLABELED (53555-65-0	(Injahalad))
•	
Log Pow Bioaccumulative potential	6.88 No data available.
	l .
1,2,3,4,6,7-HEXACN UNLABELED (103426-96-	6 (Unlabeled))
Log Pow	6.88
Bioaccumulative potential	No data available.
1,2,3,5,6,7-HEXACN UNLABELED (103426-97-	7 (Unlabeled))
Log Pow	6.88
Log Pow Bioaccumulative potential	6.88 No data available.
Bioaccumulative potential	No data available.
Bioaccumulative potential 1,2,3,5,6,8-HEXACN UNLABELED (103426-95-	No data available. 5 (Unlabeled))
Bioaccumulative potential 1,2,3,5,6,8-HEXACN UNLABELED (103426-95- Log Pow	No data available. 5 (Unlabeled)) 6.88
Bioaccumulative potential 1,2,3,5,6,8-HEXACN UNLABELED (103426-95-	No data available. 5 (Unlabeled))
Bioaccumulative potential 1,2,3,5,6,8-HEXACN UNLABELED (103426-95- Log Pow	No data available. 5 (Unlabeled)) 6.88 No data available.
Bioaccumulative potential 1,2,3,5,6,8-HEXACN UNLABELED (103426-95- Log Pow Bioaccumulative potential	No data available. 5 (Unlabeled)) 6.88 No data available.
Bioaccumulative potential 1,2,3,5,6,8-HEXACN UNLABELED (103426-95- Log Pow Bioaccumulative potential 1,2,3,4,5,6,7-HEPTACN (13C10, 98%) (58863-1 Bioaccumulative potential	No data available. 5 (Unlabeled)) 6.88 No data available. 4-2 (Unlabeled)) No data available.
Bioaccumulative potential 1,2,3,5,6,8-HEXACN UNLABELED (103426-95- Log Pow Bioaccumulative potential 1,2,3,4,5,6,7-HEPTACN (13C10, 98%) (58863-1 Bioaccumulative potential OCTACHLORONAPHTHALENE UNLABELED	No data available. 5 (Unlabeled)) 6.88 No data available. 4-2 (Unlabeled)) No data available. (2234-13-1 (Unlabeled))
Bioaccumulative potential 1,2,3,5,6,8-HEXACN UNLABELED (103426-95- Log Pow Bioaccumulative potential 1,2,3,4,5,6,7-HEPTACN (13C10, 98%) (58863-1 Bioaccumulative potential	No data available. 5 (Unlabeled)) 6.88 No data available. 4-2 (Unlabeled)) No data available.

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Bioaccumulative potential Not available. 12.3.4.56.7.HEFTACN UNLABELED (5885-14-2 (Unlabeled)) Log Pow Log Pow 6.83 Bioaccumulative potential No data available. 12.3.4.TETRACN (13C10, 99%) (2020-02-4 (Unlabeled)) Log Pow Lag Pow 6.31 Bioaccumulative potential No data available. 12.3.5.7.PETKACN (13C10, 99%) (2020-02-4 (Unlabeled)) Bioaccumulative potential Bioaccumulative potential No data available. 12.3.5.7.PETKACN (13C10, 99%) (2020-02-4 (Unlabeled)) Bioaccumulative potential Bioaccumulative potential No data available. 12.3.5.7.PETKACN (13C10, 99%) (2024-31 (Unlabeled)) Eleaccumulative potential Bioaccumulative potential Not available. 12.4 Mobility in soil Not available. 24. Mobility in soil Not available. PON CALIBRATION SOLUTION CS7 (UNLABELED/13C10, 99%) (2024-274 (Unlabeled)) Ecology - soil 21.3.5.7.PETKACNI NLABELED (111:64-2) Ecology - soil Ecology - soil Not available. 12.3.5.6.7.HEXACN UNLABELED (2022-924 (Unlabeled)) Ecology - soil 12.3.5.6.7.HEXACN UNLA	ISOOCTANE UNLABELED (540-84-1)	
1,2,3,4,5,6,7-HEPTACN UNLABELED (5888-1-2 (Unlabeled)) 6.88 Log Pow 6.88 Bacaccumulative potential No data available. 12,3,4,7,7HETRACN (13C10, 99%) (2002-02-4 (Unlabeled)) 1 Log Pow 6.31 Boaccumulative potential No data available. 12,3,5,7,7HEXTACN (13C10, 99%) (15355-550 (Unlabeled)) 1 Boaccumulative potential No data available. 12,3,4,5,7HEXACN (13C10, 99%) (1932-274 (Unlabeled)) 1 Boaccumulative potential No data available. 12,3,4,5,7HEXACN (13C10, 99%) (1932-274 (Unlabeled)) 1 Boaccumulative potential No data available. COTACN (13C10, 99%) (1932-274 (Unlabeled)) 1 Cop Pow 6.42 Boaccumulative potential Not available. 24. Mobility in soll PON CALIBRATION SOLUTION CS7 (UNLABELED (13C0-99%) IN NONANE Ecology - sol Not available. 12,3,4,5,7HEXACN UNLABELED (13555-65-0 (Unlabeled)) Ecology - sol Not available. 12,3,4,5,7HEXACN UNLABELED (13242-95-6 (Unlabeled)) Ecology - sol No data available. 12	· · ·	Not available.
Log Pow 6.88 Bioaccumulative potential No data available. Log Pow 5.314 Bioaccumulative potential No data available. 1.2.3.5.7.FENTACN (13C10, 99%) (35555-65- (Unlabeled)) Bioaccumulative potential Bioaccumulative potential No data available. 1.2.3.5.7.FENTACN (13C10, 99%) (6752:274 (Unlabeled)) Bioaccumulative potential Bioaccumulative potential No data available. 1.2.3.5.7.FEXACN (13C10, 99%) (6752:274 (Unlabeled)) Bioaccumulative potential Defaccumulative potential No data available. OCTACN (13C10, 99%) (222-47-4 (Unlabeled)) Edacumulative potential Defaccumulative potential No data available. OCTACN (13C10, 99%) (222-41-3-1 (Unlabeled)) Edacumulative potential Bioaccumulative potential Not available. Cetdagr - sol Not available. 1.2.3.4.FETRACH (ISCINON SOLUTION CS (UNLABELED 13C10. 99%) INONANE Ecologr - sol Ecologr - sol Not available. 1.2.3.4.FETRACHLIOR NONPHTHALENE UNLABELED (2022-02-4 (Unlabeled)) Ecologr - sol 2.3.5.7.FEXACN UNLABELED (103426-95- (Unlabeled)) Ecologr - sol 2.3.5.7.FEXACN UNLABELED (103426-95- (Unlabeled)) Ecologr - sol 2.3.5.7.FEXACN UNLABELED (103426-95- (Unlabeled)) Ecologr - sol 2.3.5.5.7.FEXACN UNLABELED (103426-95- (U	·	
Bioscoundative potential No data available. 1.2,3.4-TETRACN (13C10,99%) (2002-02- (Unlabeled)) Not available. Bioaccumulative potential Not available. 1.2,3.5,7-PENTACN (13C10,99%) (3555-65-0 Unlabeled)) Bioaccumulative potential Bioaccumulative potential No data available. 1.2,3.5,7-PENTACN (13C10,99%) (103262-77- (Unlabeled)) Bioaccumulative potential Bioaccumulative potential No data available. 1.2,3.5,7-HEXACN (13C10,99%) (103262-77- (Unlabeled)) Bioaccumulative potential Bioaccumulative potential Not available. 1.2,3.4,5,7-HEXACN (13C10,99%) (107422-77- (Unlabeled)) Contavailable. Bioaccumulative potential Not available. 1.2,3.4,5,7-HEXACN (13C10,99%) (107422-77- (Unlabeled)) Contavailable. Bioaccumulative potential Not available. 1.2,3.4,5,7-HEXACN (13C10,99%) (107422-77- (Unlabeled)) Contavailable. 1.2,4.4 Moltify in solit Not available. 1.2,3.5,7-HEXACN UNLABELED (11-84-2) Not available. 1.2,3.5,7-HEXACN UNLABELED (103426-95-0) Contavailable. 1.2,3.4,6,7-HEXACN UNLABELED (103426-95-0) Not data available. 1.2,3.4,6,7-HEXACN UNLAB		
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1,2,3,4,5,7-HEXACN (13C10, 99%) (67922-27-4 (Unlabeled))		
Ecology - soil Not available.		
	Ecology - soil	Not available.

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OCTACN (13C10, 99%) (2234-13-1 (Unlabele	ed))
Ecology - soil	Not available.
12.5. Results of PBT and vPvB assessme	ent
No additional information available	
12.6. Other adverse effects	
Other adverse effects	: An environmental hazard cannot be excluded in the event of unprofessional handling or dispose
	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment
SECTION 13: Disposal consideration	ns
13.1. Waste treatment methods	
Regional legislation (waste)	: Waste materials should be disposed of under conditions which meet Federal, State, and Local environmental control regulations.
Waste disposal recommendations	: Dispose of contents/container to Comply with applicable regulations.
Additional information	: Handle empty containers with care because residual vapors are flammable.
Ecology - waste materials	: Hazardous waste due to toxicity.
SECTION 14: Transport information	
In accordance with ADR / RID / ADNR / IMDG /	ICAO / IATA
14.1. UN number	
UN-No.(DOT)	: 1920
DOT NA no.	UN1920
14.2. UN proper shipping name	
DOT Proper Shipping Name	: Nonanes
Department of Transportation (DOT) Hazard Classes	: 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120
Hazard labels (DOT)	: 3 - Flammable liquid
Packing group (DOT)	: III - Minor Danger
DOT Special Provisions (49 CFR 172.102)	: B1 - If the material has a flash point at or above 38 C (100 F) and below 93 C (200 F), then the bulk packaging requirements of 173.241 of this subchapter are applicable. If the material has a flash point of less than 38 C (100 F), then the bulk packaging requirements of 173.242 of this subchapter are applicable.
	 IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HN2, 31HD2 and 31HH2). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized, except for UN2672 (also see Special Provision IP8 in Table 2 for UN2672). T2 - 1.5 178.274(d)(2) Normal
	following: Degree of filling = 97 / 1 + a (tr - tf) Where: tr is the maximum mean bulk temperature during transport, and tf is the temperature in degrees celsius of the liquid during filling.
DOT Packaging Exceptions (49 CFR 173.xxx)	: 150
DOT Packaging Non Bulk (49 CFR 173.xxx)	: 203
DOT Packaging Bulk (49 CFR 173.xxx)	: 242
14.3. Additional information	
Other information	: No supplementary information available.
Overland transport	
Packing group (ADR)	: III
Class (ADR)	: 3 - Flammable liquid
Hazard identification number (Kemler No.)	: 30
Classification code (ADR)	: F1

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Danger labels (ADR)	: 3 - Flammable liquids
	3
Orange plates	30 1920
Tunnel restriction code	: D/E
Limited quantities (ADR)	5L
EAC	: 3Y
Excepted quantities (ADR)	: E1
Transport by sea	
DOT Vessel Stowage Location	: A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.
MFAG-No	: 128
Air transport	
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: 60 L
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 220 L
Civil Aeronautics Law	: Flammable liquids
14.4. Environmental hazards	
Other information	: No supplementary information available.
14.5. Special precautions for user	
	will of MARROL 79/70 and the IRC Code
14.6. Transport in bulk according to Anne	x II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information			
15.1. US Federal regulations			
PCN CALIBRATION SOLUTION CS7 (UNLA	BELED/13C10, 99%) IN NONANE		
SARA Section 311/312 Hazard Classes	Fire hazard Immediate (acute) health hazard		
N-NONANE UNLABELED (111-84-2)			
SARA Section 311/312 Hazard Classes	Fire hazard Immediate (acute) health hazard		
ISOOCTANE UNLABELED (540-84-1)			
SARA Section 311/312 Hazard Classes	Fire hazard Immediate (acute) health hazard Delayed (chronic) health hazard		
1,2,3,4-TCDD (1746-01-6)			
Not listed on the United States TSCA (Toxic Substances Control Act) inventory			

15.2. International regulations

CANADA

PCN CALIBRATION SOLUTION CS7 (UNLABELED/13C10, 99%) IN NONANE

Listed on the Canadian DSL (Domestic Substances List) inventory.

15.2.1. National regulations

No additional information available

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according to Regulation (EC) No. 453/2010 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

15.3. US State regulations		
PCN CALIBRATION SOLUTION CS7 (UNLABELED/13C10, 99%) IN NONANE()		
State or local regulations	U.S Massachusetts - Right To Know List U.S Pennsylvania - RTK (Right to Know) List U.S New Jersey - Right to Know Hazardous Substance List This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.	

N-NONANE UNLABELED (111-84-2)

U.S. - Massachusetts - Right To Know List

U.S. - Pennsylvania - RTK (Right to Know) List

U.S. - New Jersey - Right to Know Hazardous Substance List

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

ISOOCTANE UNLABELED (540-84-1)

U.S. - Massachusetts - Right To Know List

U.S. - Pennsylvania - RTK (Right to Know) List

U.S. - New Jersey - Right to Know Hazardous Substance List

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

1,2,3,4-TCDD (1746-01-6)

WARNING! This product contains a chemical known to the state of California to cause cancer, birth defects, or other reproductive harm.

SECTION 16: Other information

Other information

: This product is not radioactive. The data given for this product are those of the corresponding unlabeled compound, unless specifically indicated otherwise. Health and safety data for labeled compounds are generally not available, but are assumed to be similar or identical to the corresponding unlabeled compound.

Full text of R-, H- and EUH-phrases::

Acute Tox. 1 (Dermal)	Acute toxicity (dermal) Category 1
Acute Tox. 4 (Inhalation)	Acute toxicity (inhalation) Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
Aquatic Acute 1	Hazardous to the aquatic environment - Acute Hazard Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment - Chronic Hazard Category 1
Aquatic Chronic 3	Hazardous to the aquatic environment - Chronic Hazard Category 3
Aquatic Chronic 4	Hazardous to the aquatic environment - Chronic Hazard Category 4
Asp. Tox. 1	Aspiration hazard Category 1
Eye Dam. 1	Serious eye damage/eye irritation Category 1
Eye Irrit. 2	Serious eye damage/eye irritation Category 2
Flam. Liq. 2	Flammable liquids Category 2
Flam. Liq. 3	Flammable liquids Category 3
Muta. 2	Germ cell mutagenicity Category 2
Skin Irrit. 2	skin corrosion/irritation Category 2
STOT RE 1	Specific target organ toxicity (repeated exposure) Category 1
STOT RE 2	Specific target organ toxicity (repeated exposure) Category 2
STOT SE 1	Specific target organ toxicity (single exposure) Category 1
STOT SE 2	Specific target organ toxicity (single exposure) Category 2
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H225	Highly flammable liquid and vapor
H226	Flammable liquid and vapor
H302	Harmful if swallowed
H304	May be fatal if swallowed and enters airways
H310	Fatal in contact with skin
H315	Causes skin irritation
H318	Causes serious eye damage
H319	Causes serious eye irritation
H332	Harmful if inhaled
2/0045	

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according to Regulation (EC) No. 453/2010 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

May cause drowsiness or dizziness
Suspected of causing genetic defects
Causes damage to organs
May cause damage to organs
Causes damage to organs through prolonged or repeated exposure
May cause damage to organs through prolonged or repeated exposure
Very toxic to aquatic life
Very toxic to aquatic life with long lasting effects
Harmful to aquatic life with long lasting effects
May cause long lasting harmful effects to aquatic life
Flammable
Highly flammable
Harmful by inhalation
Harmful by inhalation and in contact with skin
Harmful if swallowed
Very toxic in contact with skin
Irritating to eyes, respiratory system and skin
Irritating to skin
Risk of serious damage to eyes
Danger of serious damage to health by prolonged exposure
Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment
May cause long-term adverse effects in the aquatic environment
Harmful: may cause lung damage if swallowed
Vapors may cause drowsiness and dizziness
Possible risk of irreversible effects
Highly flammable
Dangerous for the environment
Very toxic
Irritant
Harmful

NFPA health hazard	: 2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt medical attention is given.	3
NFPA fire hazard	: 3 - Liquids and solids that can be ignited under almost all ambient conditions.	2 0
NFPA reactivity	: 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.	
HMIS III Rating		
Health	: 2 Moderate Hazard - Temporary or minor injury may occur	
Flammability	: 3 Serious Hazard	
Physical	: 0 Minimal Hazard	

CIL Multi-Solvent Mixture SDS

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product